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SUBJECT: Forwards five revised tables for DES section re need for facility. Info superseded 790202 submittal w/applicant comments on DES.

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October 3, 1979

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Director, Office of Nuclear Reactor Regulation
Attention: V. A. Moore, Assistant Director
Environmental Projects
Division of Site Safety and
Environmental Analysis
U.S. Nuclear Regulatory Commission
Washington, DC 20555

Gentlemen:

Subject: Docket Nos. 50-361 and 50-362
San Onofre Nuclear Generating Station
Units 2 and 3

Enclosed are five tables which have been revised for the "Need for the Station" section of the Draft Environmental Statement related to the operation of San Onofre Nuclear Generating Station, Units 2 and 3. Tables 8.1 and 8.2 show the generating stations and production costs for the Southern California Edison and San Diego Gas & Electric Companies. Tables 8.3 and 8.4 show forecasts of peak demand, energy requirements, installed generating capacity, and reserve margins through 1985 for both SCE and SDG&E. Table 8.5 presents the electric energy sales forecasts for SDG&E through 1995. The tables have been updated to include recorded data from 1976 through 1978 and 1978 projections for 1979 through 1985. This submittal is in response to the request made during the recent site visit by Mr. Dino Scaletti.

Please find enclosed six copies of Tables 8.1, 8.2, 8.3, 8.4, and 8.5. This information supersedes the information submitted February 2, 1979, with the Applicants' comments on the DES (Comments 8-2 and 8-4). Should you have any questions regarding this information, please contact me.

Sincerely,

KP Baskin

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Revised Table 8.1. Southern California Edison Co. thermal-electric
generating stations and production costs

Station Name	On-line dates for first and last unit	Function	Fuel Type	Total Station Capacity (MW)	1978 Production Cost (dollars/MWhr)
Long Beach	1928-1977	P	Oil/gas	646	34.5
Redondo Beach	1948-1967	B, I	Oil/gas	1,602	29.0
Huntington Beach	1958-1969	I, P	Oil/gas	991	27.5
Mandalay	1959-1970	I, P	Oil/gas	551	26.4
Ormond Beach	1971-1973	I	Oil/gas	1,500	29.0
Alamitos	1956-1969	I, B, P	Oil/gas	2,071	28.4
El Segundo	1955-1965	I	Oil/gas	1,020	28.9
Etiwanda	1953-1969	I, P	Oil/gas	1,025	28.9
Mohave	1971	B	Coal	885	16.0
Four Corners	1969-1970	B	Coal	768	8.2
San Onofre Unit 1	1967	B	Nuclear	349	9.4
Coolwater	1961-1978	I	Oil/gas	506	29.3
Highgrove	1952-1955	P	Oil/gas	154	42.9
San Bernardino	1957-1958	P	Oil/gas	126	28.1
Garden State	1967	P	Oil/gas	12	59.3
Ellwood	1974	P	Oil/gas	54	53.2

Note: NA = not Available, I = intermediate, P = peaking, and B = base.

Revised Table 8.2. San Diego Gas & Electric Co.
thermal-electric generating stations and production costs

Station Name	On-line dates for first and last unit	Function	Fuel Type	Total Station Capacity (MW)	1978 Production Cost (dollars/MW-hr)
Station "B"	1923-1941	P	Oil/gas	87	134.3
Silver Gate	1943-1952	I	Oil/gas	230	38.7
Encina	1954-1978	B	Oil/gas	917	28.7
Encina GT	1968	P	Oil/gas	16	61.1
South Bay	1960-1971	B	Oil/gas	706	29.0
South Bay GT	1966	P	Oil/gas	18	139.5
San Onofre Unit 1	1967	B	Nuclear	87	9.8
El Cajon	1968	P	Oil/gas	17	56.6
Kearny	1969	P	Oil/gas	147	63.1
Division	1968	P	Oil	16	72.8
Naval Training Center	1968	C	Oil/gas	16	44.2
Miramar	1972	P	Oil/gas	38	45.9
North Island	1972	P/C	Oil/gas	41	49.3
Naval Station	1976	C	Oil/gas	26	40.1
Rohr	1979	C	Oil	1	-

Note: P = peaking, I = intermediate, B = base, and C = Cogeneration.

Revised Table 8.3. Southern California Edison Co. forecasts of peak demand, energy requirements, installed generating capacity, and reserve margins through 1985

Year	Area Peak Demand (MW)	Growth ^a (%)	Total Energy Requirements kWhr x 10 ⁶	Growth ^a (%)	Installed Capacity (MW)		Reserve Margin (%)	
					With SONGS 2 & 3	Without SONGS 2 & 3	With SONGS 2 & 3	Without SONGS 2 & 3
1976	11315		59428		14169	14169	25.2	25.2
1977	11822	4.5	63345	6.6	14307	14307	21.0	21.0
1978	12159	2.9	63877	0.8	14753	14753	21.3	21.3
1979	12393	1.9	66111	3.5	14970	14970	20.8	20.8
1980	12671	2.2	67124	1.5	15017	15017	18.5	18.5
1981	13180	4.0	69051	2.9	15429	15253	17.1	15.7
1982	13716	4.1	71464	3.5	16255	15199	18.5	10.8
1983	14091	2.7	73320	2.6	16685	14925	18.4	5.9
1984	14621	3.8	76029	3.7	17144	15384	17.3	5.2
1985	15071	3.1	78615	3.4	17597	15837	16.8	5.1

^a Percentage increase over previous year.

1976 through 1978 are recorded.

Revised Table 8.4. San Diego Gas and Electric Co. forecasts of peak demand, energy requirements, installed generating capacity, and reserve margins through 1985

Year	Peak Demand (MW)	Growtha (%)	Energy Requirements kWhr x 10 ⁶	Growtha (%)	Installed Capacity (MW)		Reserve Margin (%)	
					With SONGS 2 & 3	Without SONGS 2 & 3	With SONGS 2 & 3	Without SONGS 2 & 3
1976	1716	6.0	9122	3.9	2062	2062	20.2	20.2
1977	1746	1.7	9327	2.2	2030	2030	16.3	16.3
1978	1981	13.5	10053	7.8	2030	2030	2.3	2.3
1979	2005	1.2	10487	4.3	2363	2363	17.9	17.9
1980	2106	5.0	11088	5.7	2363	2363	12.2	12.2
1981	2136	1.4	11592	4.5	2407	2363	12.7	10.6
1982	2311	8.2	11833	2.1	2627	2363	13.7	2.3
1983	2415	4.5	12286	3.8	2803	2363	16.1	-2.2
1984	2546	5.4	12913	5.1	2803	2363	10.1	-7.2
1985	2662	4.6	13496	4.5	2803	2363	5.3	-11.2

a percentage increase over previous year.

1976 through 1978 are recorded.

Table 8.5. San Diego Gas & Electric Co.
electric energy sales forecast

Year	Total Sales (kWhr x 10 ⁶)
* 1976	8,440
* 1977	8,676
* 1978	9,278
1979	9,664
1980	10,272
1981	10,740
1982	10,964
1983	11,383
1984	11,965
1985	12,505
1986	12,987
1987	13,427
1988	13,863
1989	14,347
1990	14,739
1991	15,171
1992	15,618
1993	16,155
1994	16,846
1995	17,398

Source: San Diego Gas and Electric Co.
April 4, 1979
Filing with California Energy Commission

* = recorded